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## (54) Cellular phone with infrared interface in the battery pack

(57) A cellular phone has, in addition to an antenna, speaker and microphone, a device interface capable of transmitting electronic information between the cellular phone and an electronic device, such as a computer or modem, when the device is physically connected to the cellular phone. The cellular phone also has a battery pack. The battery pack has, in addition to a battery for powering the cellular phone, an infrared port for transmitting infrared information between the cellular phone and an electronic device with infrared capability. The infrared port is connected to an infrared converter,

which is connected to the device interface. The infrared converter converts electronic information to infrared information for transmission between the cellular phone and the device over the infrared port. Existing cellular phones can be upgraded to obtain the ability to communicate with electronic devices over an infrared port by replacing the conventional battery pack contained in the existing cellular phone with an infrared battery pack of the type shown in the various embodiments of the invention.

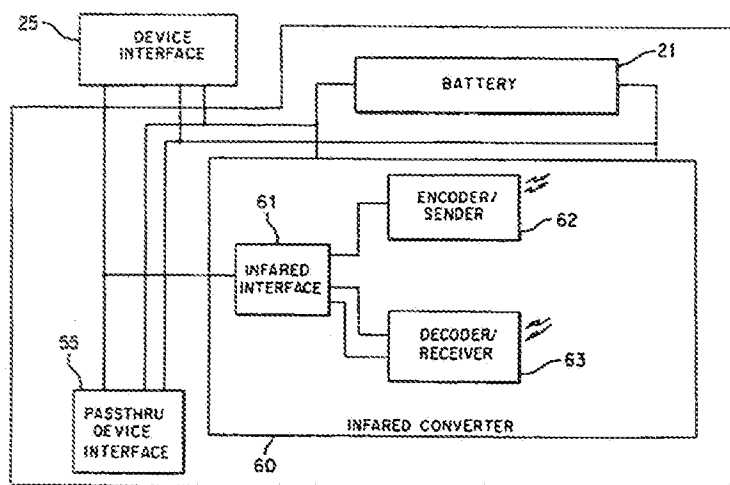


FIG. 4



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# EUROPEAN SEARCH REPORT

Application Number  
EP 95 30 0130

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	EP 0 423 733 A (SIEMENS AG OESTERREICH ;SIEMENS AG (DE)) * the whole document *	1-3	H04B1/38 H04M1/72
A	DE 90 01 293 U (VOTRONIC) * the whole document *	1,2,5	
A	DE 90 01 291 U (VOTRONIC) * the whole document *	3	
A	GB 2 251 515 A (TECHNOPHONE LTD) * abstract * * figure 1 * * claim 1 * * claim 9 *	4	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H04B H04M H04Q
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>24 October 1997</b>	Examiner <b>Lindhardt, U</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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